

**Program Letter**  
Bureau of Storage Tank Regulation

Revision of Sep. '97 Guideline

## **Plan Submittal Material / Components List**

The requirement for a material or component list is derived from two areas of the ILHR 10 code:

- Subchapter I – Purpose and Application (10.002), applies plan submittal to installation, construction, addition or alteration of new and existing facilities or structures.
- Subchapter III – Administration and Enforcement (10.10(3)16 & 17), requests information and specifications on material, equipment and devices used in the project that do not have material approval and the material approval numbers for those components that require material approval.

Historically, Department reviewers have not required the specifications of all components as required by the code. The reviewers are familiar with most of the traditional or standards components and their respective specification, provided the component nomenclature and manufacturer is included in the submittal. Information and specifications must accompany new materials and components introduced by the industry. Many of the components listed below are integral with, or are installed in conjunction with, other components. If a component is not noted in the material list, the reviewer may question if is being installed.

ILHR 10 adopts various standards by reference. These standards, e.g., NFPA 30, 30A and 37 call for specific materials and components to be installed based upon location and use of the proposed system. The submitter must ensure that the components required for proper system installation and operation be included in the material list and their location on the system noted on the plan.

There are numerous methods used to provide the information requested with an application. The Department does not require that a specific format be followed. A format in an organized concise manner that allows the reviewer to easily determine that the required components are being installed and exhibits that the site meets the code requirements should be submitted.

### **COMPONENTS / MATERIALS REQUIRED TO BE PROVIDED WITH AN APPLICATION:**

Only those components that are proposed to be used should be included on a materials list or typical drawing.

Contractors submitting installation typicals with applications, may include the required component information on the typical and will not be required to include the same information in a materials list.

- Storage tank(s) AST/UST (each tank)--- MFG. U/L standard, Construction material, capacity, dimensions, configuration (single wall, double wall, multi-compartment), product contained.
- Product supply pipe---mfg, construction, configuration, size, material approval if required.
- Product return pipe--mfg, construction, configuration, size material approval if required.
- Syphon pipe--mfg, construction, size, material approval if required.
- Vent pipe---mfg, construction, size, material approval if required.

- Submerged pump---mfg, model, size.
- Tank top check valve--mfg, model, size.
- Under pump inspectable check valve---mfg, model, size.
- Shear valve---mfg, model, size.
- Fire valve--mfg, model, size, configuration (internal/external).
- Valves--mfg, model, size, type (ball/gate) (differential/non-differential).
- Solenoid valve--mfg, model, size, type (differential/non-differential, press. relief).
- Tank Leak detection/ATG--mfg, model, probe Nos., material approval.
- Pipe Leak detection---mfg, model, material approval number.
- Flow restrictor--mfg, model, material approval number.
- Any redundant leak detection methods installed.
- Float check ---mfg, model, length.
- Extractor housing---mfg, model, configuration (example-4x4x2).
- Flex connectors--make, model number, length, diameter, material approval number.
- Spill containment--mfg, model, size.
- Overfill preventer mfg, model, material approval if required.
- Operating vent---mfg, model, size, cfh.
- Emergency vent---mfg, model, size, cfh.
- Anti-syphon device--mfg, model.
- Vacuum actuated shut off valve--mfg, model.
- Emergency power cutoff---mfg, model, .
- Dispenser(dispensing device)---make, model, with or w/o card reader, with or w/o pump stop button.  
The following components may be included with the dispenser typical if used:
  - a) hose---mfg, configuration.
  - b) hose safty break--- mfg, model.
  - c) nozzle---mfg, model.
  - d) flow limiting device---mfg, model.

### **Vapor Recovery (w/CARB Executive Order)**

- Stage I vapor adapter dual point/ single point coaxial drop tube ---mfg, model, size.
- Vapor pipe----mfg, construction, size, material approval if required.
- Stage II vapor shear valve---mfg, model, size, fire marshal number.
- Stage I/II operating vent---mfg, model, size, cfh, fire marshal number.
- Stage II dispenser(dispensing device)--mfg, model, with or w/o card reader, with or w/o pump stop button Fire marshal number.  
The following components may be included with the dispenser typical if used:
  - a) hose---mfg, configuration, Fire marshal number.
  - b) hose safty break--- mfg, model, Fire marshal number.
  - c) nozzle---mfg, model, Fire marshal number.
  - d) flow limiting device---mfg, model.
  - e) splash guard---mfg, model.

### **Cathodic Protection**

- Anodes--mfg, type, size.
- Anode conductor wire--size, classification.
- Bonding wire---size, classification.
- Permanent reference cell--mfg, model.
- Clamps---mfg, type, size.
- Coating---mfg, type.
- Rectifier---mfg, model, enclosure, specifications, U/L listing if available.

**CP/Lining**

- UST/AST Internal lining material ---mfg, specifications.
- AST containment (pre-manufactured) make, model, capacity, material approval number if required.
- Dike liner---mfg, material, material approval number.

**Note: The Material List as referenced above is not intended to be all inclusive. Depending upon changes in technology and different applications, items not referenced on the list may be required to be listed on a project's plan submittal Material List.**

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